



Attorney's Docket No. 047751.P132

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Michael J. Gormish

Application No.: 09/823,739

Filed: 03/30/2001

For: Method and Apparatus for Assigning  
Codeblocks to Coders Operating in  
Parallel

Examiner: Timothy M. Johnson

Art Unit: 2625

#13

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429-04

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Respectfully submitted,

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Dated:   4/20, 2004  

  
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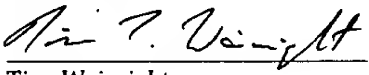
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## INFORMATION DISCLOSURE

## STATEMENT BY APPLICANT

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## Complete if Known

Application Number	09/823,739
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First Named Inventor:	Michael J. Gormish
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Examiner Name	Not Yet Assigned
Attorney Docket Number	074451.P132

Sheet 1 of 8

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (If known)				
		us-	3,580,655	5/25/1971	Leith et al.	
		us-	3,950,103	4/13/1976	Schmidt-Weinmar	
		us-	4,136,954	1/30/1979	Jamieson	
		us-	4,155,097	5/15/1979	Lux	
		us-	4,190,861	2/26/1980	Lux	
		us-	4,223,354	9/16/1980	Noble et al.	
		us-	4,393,456	7/12/1983	Marshall, Jr.	
		us-	4,437,087	3/13/1984	Petr	RECEIVED
		us-	4,569,075	2/4/1986	Nussbaumer	
		us-	4,599,567	7/8/1986	Goupillaud et al.	APR 26 2004
		us-	4,652,881	3/24/1987	Lewis	Technology Center 2600
		us-	4,663,660	5/5/1987	Fedele et al.	
		us-	4,674,125	6/16/1987	Carlson et al.	
		us-	4,701,006	10/20/1987	Perlmutter	
		us-	4,751,742	6/14/1988	Meeker	
		us-	4,760,563	7/26/1988	Beylkin	
		us-	4,785,348	11/15/1988	Fonsalas et al.	
		us-	4,785,349	11/15/1988	Keith et al.	
		us-	4,799,179	1/17/1989	Masson et al.	
		us-	4,805,129	2/14/1989	David	
		us-	4,815,023	3/21/1989	Arbeiter	
		us-	4,817,182	3/28/1989	Adelson et al.	
		us-	4,821,223	4/11/1989	David	
		us-	4,827,336	5/2/1989	Acampora et al.	
		us-	4,829,378	5/9/1989	Le Gall	
		us-	4,837,517	6/6/1989	Barber	
		us-	4,839,889	6/13/1989	Gockler	
		us-	4,858,017	8/15/1989	Torbey	
		us-	4,864,398	9/5/1989	Avis et al.	
		us-	4,868,868	9/19/1989	Yazu et al.	
		us-	4,881,075	11/14/1989	Weng	
		us-	4,894,713	1/16/1990	Delogne et al.	
		us-	4,897,717	1/30/1990	Hamilton et al.	
		us-	4,899,147	2/6/1990	Schiavo et al.	
		us-	4,904,073	2/27/1990	Lawton et al.	
		us-	4,918,524	4/17/1990	Ansari et al.	
		us-	4,922,544	5/1/1990	Stansfield et al.	
		us-	4,929,223	5/29/1990	Walsh	
		us-	4,929,946	5/29/1990	O'Brien et al.	
		us-	4,936,665	6/26/1990	Whitney	
		us-	4,973,961	11/27/1990	Chamzas et al.	
		us-	4,974,187	11/27/1990	Lawton	
		us-	4,982,283	1/1/1991	Acampora	

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Sheet	2	of	8
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		us-	4,985,927	1/15/1991	Norwood et al.	
		us-	4,987,480	1/22/1991	Lippman et al.	
		us-	4,999,705	3/12/1991	Puri	
		us-	5,000,183	3/19/1991	Bonnefous	
		us-	5,001,764	3/19/1991	Wood et al.	
		us-	5,014,134	5/7/1991	Lawton et al.	
		us-	5,018,210	5/21/1991	Merryman et al.	
		us-	5,049,992	9/17/1991	Citta et al.	RECEIVED
		us-	5,049,993	9/17/1991	Le Gall et al.	
		us-	5,068,911	11/26/1991	Resnikoff et al.	APR 26 2004
		us-	5,072,308	12/10/1991	Lin et al.	
		us-	5,073,964	12/17/1991	Resnikoff	Technology Center 2600
		us-	5,081,645	1/14/1992	Resnikoff et al.	
		us-	5,095,447	3/10/1992	Manns et al.	
		us-	5,097,261	3/17/1992	Langdon, Jr. et al.	
		us-	5,097,331	3/17/1992	Chen et al.	
		us-	5,101,280	3/31/1992	Moronaga et al.	
		us-	5,101,446	3/31/1992	Resnikoff et al.	
		us-	5,103,306	4/7/1992	Weiman et al.	
		us-	5,109,451	4/28/1992	Aono et al.	
		us-	5,121,191	6/9/1992	Cassereau et al.	
		us-	5,124,930	6/23/1992	Nicholas et al.	
		us-	5,128,757	7/7/1992	Citta et al.	
		us-	5,128,791	7/7/1992	Le Gall et al.	
		us-	5,148,498	9/15/1992	Resnikoff et al.	
		us-	5,152,953	10/6/1992	Ackermann	
		us-	5,156,943	10/20/1992	Whitney	
		us-	5,173,880	12/22/1992	Duren et al.	
		us-	5,182,645	1/26/1993	Breeuwer et al.	
		us-	5,223,926	6/29/1993	Stone, et al.	
		us-	5,235,434	8/10/1993	Wober	
		us-	5,241,395	8/31/1993	Chen	
		us-	5,262,958	11/16/1993	Chui et al.	
		us-	5,276,525	1/4/1994	Gharavi	
		us-	5,315,670	5/24/1994	Shapiro	
		us-	5,321,776	6/14/1994	Shapiro	
		us-	5,335,016	8/2/1994	Nakagawa	
		us-	5,347,479	9/13/1994	Miyazaki	
		us-	5,349,348	9/20/1994	Anderson et al.	
		us-	5,379,355	1/3/1995	Allen	
		us-	5,381,145	1/10/1995	Allen et al.	
		us-	5,384,869	1/24/1995	Wilkinson et al.	
		us-	5,412,741	5/2/1995	Shapiro	

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		Number-Kind Code <sup>2</sup> (if known)				
		us-	5,414,780	5/9/1995	Camahan	
		us-	5,416,604	5/16/1995	Park	
		us-	5,420,891	5/30/1995	Akansu	
		us-	5,453,945	9/26/1995	Tucker et al.	
		us-	5,455,874	10/3/1995	Ormsby et al.	
		us-	5,481,308	1/2/1996	Hartung et al.	
		us-	5,495,292	2/27/1996	Zhang et al.	
		us-	5,497,435	3/5/1996	Berger	
		us-	5,511,151	4/23/1996	Russell et al.	
		us-	5,534,925	7/9/1996	Zhong	
		us-	5,537,493	7/16/1996	Wilkinson	
		us-	5,541,594	7/30/1996	Huang et al.	
		us-	5,442,458	8/15/1995	Rabbani et al.	
		us-	5,546,477	8/13/1996	Knowles et al.	
		us-	5,563,960	10/8/1996	Shapiro	
		us-	5,566,089	10/15/1996	Hoogenboom	
		us-	5,602,589	2/11/1997	Vishwanath et al.	
		us-	5,631,977	5/20/1997	Koshi	
		us-	5,638,498	6/10/1997	Tyler et al.	
		us-	5,657,085	8/12/1997	Katto	
		us-	5,701,367	12/23/1997	Koshi et al.	
		us-	5,717,789	2/10/1998	Anderson, et al.	
		us-	5,754,793	5/19/1998	Eom et al.	
		us-	5,808,683	9/15/1998	Tong et al.	
		us-	5,809,176	9/15/1998	Yajima	
		us-	5,850,482	12/15/1998	Meany et al.	
		us-	5,867,602	2/2/1999	Zandi et al.	
		us-	5,880,856	3/9/1999	Ferriere	
		us-	5,966,465	10/12/1999	Keith et al.	
		us-	6,020,975	2/1/2000	Chen et al.	
		us-	6,026,198	2/15/2000	Okada	
		us-	6,088,062	7/11/2000	Kanou et al.	
		us-	6,101,279	8/8/2000	Nguyen et al.	
		us-	6,118,902	9/12/2000	Knowles	
		us-	6,121,970	9/19/2000	Guedalia	
		us-	6,128,413	10/3/2000	Benamara	
		us-	6,160,846	12/12/2000	Chiang	
		us-	6,201,897 B1	3/13/2001	Nixon	
		us-	6,229,929 B1	5/8/2001	Lynch et al.	
		us-	6,236,765 B1	5/22/2001	Archarya	
		us-	6,237,010 B1	5/22/2001	Hui et al.	
		us-	6,263,109 B1	7/17/2001	Ordentlich et al.	
		us-	6,263,120 B1	7/17/2001	Matsuoka	

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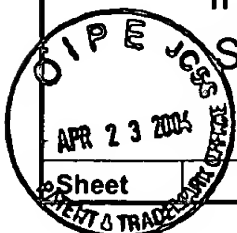
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Sheet 5 of 8



## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		EPO 0510933 A1	10/28/1992	Canon Kabushiki Kaisha		
		EPO 0593013 A2	4/20/1994	Kabushiki Kaisha Toshiba		
		EPO 0611051 A1	8/17/1994	Canon Kabushiki Kaisha		
		EPO 0622741 A2	11/2/1994	Klics, Ltd.		
		EPO 0967556 A2	12/29/1999	Hewlett-Packard Co.		
		EPO 1035511 A2	9/13/2000	Canon Kabushiki Kaisha		
		EPO 1164781 A1	12/19/2001	Matsushita Electric Ind. Co., Ltd		
		EPO 701375 A2	3/13/1996	Xerox Corporation		
		JP 06-245077	9/2/1994	Nec Corp.		
		JP 406038193 A	7/17/1992	Casio Computer Co. Ltd.		
		JP 6-350989	12/22/1994	Fuji Photo Film Co. Ltd.		
		JP 7-79350	3/20/1995	Fuji Photo Film Co. Ltd.		
		PCT WO 00/49571	8/24/2000	Digital Accelerator Corp.		
		PCT WO 01/16764 A1	3/8/2001	Rtimage Inc.		
		PCT WO 88/10049	12/15/1988	Eastman Kodak Co.		
		PCT WO 91/03902	3/21/1991	Aware, Inc.		
		PCT WO 91/18361	11/28/1991	Yale University		
		PCT WO 93/10634	5/27/1993	General Electric Co.		
		PCT WO 94/17492	8/4/1994	David Sarnoff Research Ctr., Inc.		
		PCT WO 94/23385	10/13/1994	Lewis, Adrian		
		PCT WO 95/19683	7/20/1995	Houston Advanced Research Ctr.		
		PCT WO 96/09718	3/28/1996	Houston Advanced Research Ctr.		
		UK GB 2 211 691 A	7/5/1989	Hitachi Ltd.		
		UK GB 2 284 121 A	5/24/1995	State of Israel- Ministry of Defence		
		UK GB 2 285 374 A	7/5/1995	Ricoh Company Ltd.		
		UK GB 2 293 733 A	4/3/1996	Ricoh Company Ltd.		
		UK GB 2 293 734 A	4/3/1996	Ricoh Company Ltd.		
		UK GB 2 303 030 A	2/5/1997	Ricoh Company Ltd.		
		UK GB 2 303 031 A	2/5/1997	Ricoh Company Ltd.		
		UK GB 2 341 035 A	3/1/2000	Ricoh Company Ltd.		

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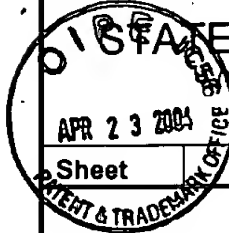
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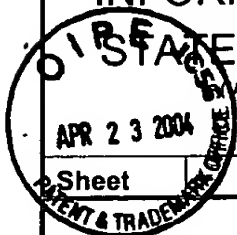
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**NON PATENT LITERATURE DOCUMENTS**

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Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		ANTONINI, et al., "Image Coding Using Wavelet Transform", <u>IEEE Transactions on Image Processing</u> , Vol 1, No. 2, April 1992, pp. 205-220.	
		BLUMBERG, et al., "Visual Realism and Interactivity for the Internet", IEEE, 1997, pp. 269-273.	
		BOLIEK, et al., "Decoding compression with reversible embedded wavelets (CREW) codestreams", Journal of Electronic Imaging, July 1998, vol. 7 (3), pp. 402-409.	
		BOLIEK, et al., "JPEG 2000 for Efficient Imaging in a Client/Server Environment", Proceeding of the PIE, SPIE, Bellingham, VA, US, Vol. 4472, July 31, 2001, pp. 212-223, XP008010308.	
		BOLIEK, et al., "JPEG 2000 Next Generation Image Compression System", IEEE 0-7803-6297, 45-48	
		CALDERBANK, et al., "Wavelet Transforms That Map Integers to Integers", August 1996.	
		CAREY, et al: "Regularity-Preserving Image Interpolation", IEEE Transactions on Image Processing, Vol. 8., No. 9, September 1999, pgs. 1293-1297, XP002246254.	
		CARRATO, et al: "A Simple Edge-Sensitive Image Interpolation Filter", Proceedings of the International Conference on Image Processing (ICIP) Lausanne, Sept. 16-19, 1996, New York, IEEE, US, vol. 1, pgs. 711-714, XP010202493.	
		CHEN, et al., "Wavelet Pyramid Image Coding with Predictable and Controllable Subjective Picture Quality", <u>IEICE Trans. Fundamentals</u> , Vol. E76-A., No. 9, September 1993, pp. 1458-1468.	
		CHEONG, et al., "Subband Image Coding with Biorthogonal Wavelets", <u>IEICE Trans. Fundamentals</u> , Vol. E75-A., No. 7, July 1992, pp. 871-881.	
		CHRYSAFIS, et al., "An Algorithm for Low Memory Wavelet Image Compression", IEEE 0-7803-5467-2/99, pg. 354-358.	
		CHRYSAFIS, et al., "Line Based Reduced Memory, Wavelet Image Compression," Data Compression Conference, 1998, DCC '98, Proceedings Snowbird, UT, March 1998, pgs. 398-407.	
		CHUI, et al., "Wavelets on a Bounded Interval", <u>Numerical Methods of Approximation Theory</u> , Vol. 9, 1992, pg. 53-75.	
		CROCHIERE, et al., "Digital Coding of Speech in Sub-bands", 1976, American Telephone and Telegraph Company, The Bell System Technical Journal, Vol. 55, No. 8, October 1976, p. 1069-1085.	
		DENK, et al., "Architectures for Lattice Structure Based Orthonormal Discrete Wavelet Transforms", IEEE, 1994, pp. 259-270.	
		DESHPANDE, et al., "HTTP Streaming of JPEG2000 Images", IEEE, 2001, pp.15-19.	
		Dutch Search Report, 133082, 11/26/96.	
		ESTEBAN, et al., "1977 IEEE International Conference on Acoustics, Speech & Signal Processing", "Application of Quadrature Mirror Filters to Split Band Voice Coding Schemes", p. 191-195.	
		French Search Report, FR9511023, 11/26/96.	
		French Search Report, FR9511024, 11/26/96.	
		German Search Report, Dated March 21, 1997, 3 pages.	
		GHAHAVI, et al., "Proceedings: ICASSP 87", 1987 International Conference on Acoustics, Speech, and Signal Processing, April 6, 7, 8, 9, 1987, Volume 4 of 4, "Application of Quadrature Mirror Filtering to the Coding of Monochrome and Color Images", p. 2384-2387.	

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<b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)			Application Number	09/823,739	
			Filing Date	3/30/2001	
			First Named Inventor:	Michael J. Gormish	
			Art Unit	2625	
			Examiner Name	Not Yet Assigned	
Sheet	7	of	8	Attorney Docket Number	074451.P132



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### NON PATENT LITERATURE DOCUMENTS

Technology Center 2600

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		GHARAVI, et al., "Sub-band Coding of Digital Images Using Two-Dimensional Quadrature Mirror Filtering", SPIE Vol. 707 Visual Communications and Image Processing, 1986, p. 51-61.	
		GORDON, BENJAMIN M., et al., "A 1.2 mW Video-Rate 2-D Color Subband Decoder," IEEE Journal of Solid-State Circuits, IEEE Inc. New York, Vol. 30, No. 12, Dec. 1, 1995, pgs. 1510-1516.	
		HAUF, et al., "The FlashPix™ Image File Format", The Fourth Color Imaging Conference: Color Science, Systems and Application, 1996, pp. 234-238.	
		HOWARD, et al., "Fast and Efficient Lossless Image Compression", IEEE, 1993, pp. 351-360.	
		Information Technology - JPEG 2000 Image Coding System - Part 1: Core Coding System, ISO/IEC 15444-1, 12/15/2000, pg. 5, 14, 22.	
		International Search Report for Application No.: GB 9518298.6, dated 8. November 1995.	
		JPEG 2000 Part 1 Final Committee Draft Version 1.0, Image Compression Standard described in ISO/IEC 1/SC 29/WG 1 N1646, 16 March 2000.	
		KOMATSU, et al., "Reversible Subband Coding of Images", SPIE Vol. 2501, pp. 676-648..	
		LANGDON, JR., "Sunset: A Hardware-Oriented Algorithm for Lossless Compression of Gray Scale Images", SPIE Vol. 1444, Image Capture, Formatting, and Display, 1991, pp. 272-282.	
		LE GALL, et al., "Sub-band coding of Digital Images Using Symmetric Short Kernal Filters and Arithmetic Coding Techniques", 1988, International Conference on Acoustics, Speech and Signal Processing, pp. 761-764.	
		LEWIS, et al., "Image Compression Using the 2-D Wavelet Transform", IEEE Transactions on Image Processing, Vol. 1, No. 2, April 1992, pp. 244-250.	
		LUX, P., "A Novel Set of Closed Orthogonal Functions for Picture Coding", 1977, pp. 267-274.	
		MARCELLIN, et al., "An Overview of JPEG-2000", Proceedings. DCC 2000 Snowbird, UT, USA, March 28-30, 2000, pp. 523-541, XP010377392.	
		MENG, TERESA H., "A Wireless Portable Video-on-Demand System," VLSI Design, 1998, Proceedings Eleventh International Conference on Chennai, India 407, Jan. 1998, California, pgs. 4-9.	
		OHTA, et al., "Wavelet Picture Coding with Transform Coding Approach", July 1992, No. 7, pp. 776-784.	
		PADMANABHAN, et al., "Feedback-Based Orthogonal Digital Filters", IEEE Transactions on Circuits and Systems, 8/93, No. 8, pp. 512-525.	
		POLLARA et al., "Rate-distortion Efficiency of Subband Coding with Integer Coefficient Filters", 7/1994, pg. 419, Information Theory, 1994, IEEE	
		REEVES, et al: "Multiscale-Based Image Enhancement", Electrical and Computer Engineering, 1997. Engineering Innovation: Voyage of Discovery. IEEE 1997 Canadian Conference on St. Johns, NFLD., Canada May 25-28, 1997, New York, NY. (pgs. 500-503), XP010235053	
		REUSENS, "New Results in Subband/Wavelet Image Coding", 5/1993, pg. 381-385.	
		SAID, et al., "Image Compression Using the Spatial-Orientation Tree", IEEE, 1993, pp. 279-282.	
		SAID, et al., "Reversible Image Compression Via Multiresolution representation and Predictive Coding", 8/11/93, pp. 664-674.	

Substitute for Form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	09/823,739
		Filing Date	3/30/2001
		First Named Inventor:	Michael J. Gomish
		Art Unit	2625
		Examiner Name	Not Yet Assigned
Sheet 8 of 8	Attorney Docket Number	074451.P132	

### NON PATENT LITERATURE DOCUMENTS

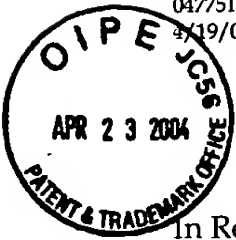
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Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		SHAH, et al., "A Chip Set for Lossless Image Compression", <u>IEEE Journal of Solid-State Circuits</u> , Vol. 26, No. 3, March 1991, pp. 237-244.	
		SHAPIRO, J. M., "An Embedded Hierarchical Image Coder Using Zerotrees of Wavelet Coefficients", <u>IEEE</u> , 1993, pp. 214-223.	
		SHAPIRO, J. M., "Embedded Image Coding Using Zerotrees of Wavelet Coefficients", <u>IEEE Transactions on Signal Processing</u> , 12/93, No. 12, pp. 3445-3462.	
		SMITH, et al., "Exact Reconstruction Techniques for Tree-Structured Subband Coders", <u>IEEE Transactions on Acoustics, Speech, and Signal Processing</u> , Vol ASSP-34, No. 3, June 1986, pg. 434-441.	
		STOFFEL, et al: "A Survey Of Electronic Techniques For Pictorial Image Reproduction," <u>IEEE Transactions On Communications</u> , vol. COM-29, no. 12, December 1981, pp. 1898-1925, XP000560531 IEEE, New York (US).	
		SZU, et al., "Image Wavelet Transforms Implemented by Discrete Wavelet Chips", <u>Optical Engineering</u> , July 1994, Vol. 33, No. 7, pp.2310-2325.	
		VETTERLI, Martin, "Filter Banks Allowing Perfect Reconstruction", <u>Signal Processing</u> 10 (1986), pg. 219-244.	
		VETTERLI, Martin, "Multi-Dimensional Sub-band Coding: Some Theory and Algorithms", <u>Signal Processing</u> 6 (1984) pg. 97-112.	
		VILLASENOR, et al., "Filter Evaluation and Selection in Wavelet Image Compression", <u>IEEE</u> , 1994, pp. 351-360.	
		WESTERNICK, et al., "Proceedings: ICASSP 87", 1987 International Conference on Acoustics, Speech, and Signal Processing, April 6, 7, 8, 9, 1987, Volume 3 of 4, "Sub-band coding of Images Using Predictive Vector Quantization", p. 1378-1381.	
		WOODS, "Subband Image Coding", 1991, pages 101-108, 163-167, and 180-189.	
		WOODS, et al., "Subband Coding of Images", <u>IEEE Transactions on Acoustics, Speech, and Signal Processing</u> , Vol. 1 ASSP-34, No. 5, October 1986, pp. 1278-1288.	
		WOODS, et al., "Sub-band coding of Images", Proceedings ICASSP 86, Tokyo, Japan, April 1986, p. 1005-1008.	
		WU, et al., "New Compression Paradigms in JPEG2000", Applications of Digital Image Processing XXIII, San Diego, CA USA, July 31-Aug 3, 2000, vol. 4115, pp. 418-429, XP008013391, Proceedings of the DPIE - The International Society for Optical Engineering, 2000, SPIE-Int. Soc. Opt. Eng., USA.	
		XIONG, et al., "Joint Optimization of Scalar and Tree-structured Quantization of Wavelet Image Decompositions", 01/11/93, pp. 891-895.	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application of:

Michael J. Gormish

Application No.: 09/823,739

Filed: March 30, 2001

For: Method and Apparatus for  
Assigning Codeblocks to Coders  
Operating in Parallel

Examiner: Timothy M. Johnson

Art Unit: 2625

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**CROSS REFERENCE TO RELATED APPLICATIONS UNDER 37 C.F.R. § 1.78**

Sir or Madam:

Pursuant to 37 C.F.R. § 1.78, Applicants note that the above-identified patent application may be related to the following U.S. Patents and Patent Applications:

- (1) U.S. Patent Application No. 09/823,598, filed March 30, 2001;
- (2) U.S. Patent Application No. 08/310,141, filed September 20, 1994;
- (3) U.S. Patent No. 6,195,465, issued June 30, 1995, entitled "Method and Apparatus for Compression Using Reversible Wavelet Transforms and an Embedded Codestream;"
- (4) U.S. Patent No. 5,867,602, issued February 2, 1999, entitled "Reversible Wavelet Transform and Embedded Codestream Manipulation;"
- (5) U.S. Patent Application No. 08/941,466, filed September, 30, 1997;
- (6) U.S. Patent Application No. 09/499,255, filed February 7, 2000;
- (7) U.S. Patent Application No. 10/226,962, filed August 22, 2002;
- (8) U.S. Patent Application No. 10/226,853, filed August 22, 2002;
- (9) U.S. Patent Application No. 10/340,491, filed January 10, 2003;

- (10) U.S. Patent No. 5,748,786, issued May 5, 1998, entitled "Apparatus for Compression Using Reversible Embedded Wavelets;"
- (11) U.S. Patent No. 6,222,941, issued April 24, 2001, entitled "Apparatus for Compression Using Reversible Embedded Wavelets;"
- (12) U.S. Patent No. 5,881,176, issued March 9, 1999, entitled "Compression and Decompression with Wavelet Style and Binary Style Including Quantization by Device-Dependent Parser;"
- (13) U.S. Patent No. 5,966,465, issued October 12, 1999, entitled "Compression/Decompression Using Reversible Embedded Wavelets;"
- (14) U.S. Patent Application No. 09/236,753, filed January 25, 1999;
- (15) U.S. Patent Application No. 09/272,091, filed March 18, 1999;
- (16) U.S. Patent Application No. 09/773,322, filed January 30, 2001;
- (17) U.S. Patent No. 6,549,666, issued April 15, 2003, entitled "Reversible Embedded Wavelet System Implementation;"
- (18) U.S. Patent No. 6,229,927, issued May 8, 2001, entitled "Reversible Embedded Wavelet System Implementation;"
- (19) U.S. Patent Application No. 09/704,991, filed November 2, 2000;
- (20) U.S. Patent Application No. 10/318,962, filed December 12, 2002;
- (21) U.S. Patent Application No. 10/319,086, filed December 12, 2002;
- (22) U.S. Patent Application No. 10/339,502, filed January 8, 2003;
- (23) U.S. Patent Application No. 10/339,543, filed January 8, 2003;
- (24) U.S. Patent Application No. 10/339,138, filed January 8, 2003;
- (25) U.S. Patent Application No. 10/339,501, filed January 8, 2003;
- (26) U.S. Patent Application No. 10/339,544, filed January 8, 2003;
- (27) U.S. Patent No. 6,492,916, issued December 10, 2002, entitled "Method and Apparatus for Generating Multiple Selectable Contexts;"
- (28) U.S. Patent Application No. 09/823,514, filed March 30, 2001;
- (29) U.S. Patent Application No. 09/ 823,595, filed March 30, 2001;
- (30) U.S. Patent Application No. 09/ 823,632, filed March 30, 2001; and
- (31) U.S. Patent Application No. 09/894,524, filed June 27, 2001.



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**AMENDMENT TRANSMITTAL**

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APR 25 2004

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Application No.: 09/823,739  
Filing Date: March 30, 2001  
First Named Inventor: Michael J. Gormish  
Examiner's Name: Timothy M. Johnson  
Art Unit: 2625  
Attorney Docket No.: 047751.P132

- ☐ An Amendment After Final Action (37 CFR 1.116) is attached and applicant(s) request expedited action.
- ☒ Charge any fee not covered by any check submitted to Deposit Account No. 02-2666.
- ☒ Applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 CFR 1.16 and 1.17, for any concurrent or future reply to Deposit Account No. 02-2666.
- ☐ Applicant(s) claim small entity status (37 CFR 1.27).

**ATTACHMENTS**

- ☐ Preliminary Amendment
- ☐ Amendment/Response with respect to Office Action
- ☐ Amendment/Response After Final Action (37 CFR 1.116) (reminder: consider filing a Notice of Appeal)
- ☐ Notice of Appeal
- ☐ RCE (Request for Continued Examination)
- ☐ Supplemental Declaration
- ☐ Terminal Disclaimer (reminder: if executed by an attorney, the attorney must be properly of record)
- ☒ Information Disclosure Statement (IDS)
- ☒ Copies of IDS citations
- ☐ Petition for Extension of Time
- ☐ Fee Transmittal Document (that includes a fee calculation based on the type and number of claims)
- ☒ Cross-Reference to Related Application(s)
- ☐ Certified Copy of Priority Document
- ☐ Other: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_
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- ☒ Postcard (Return Receipt)

**SUBMITTED BY:**

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

TYPED OR PRINTED NAME: Michael J. Mallie

SIGNATURE:

REG. NO.: 36,591

DATE: 4/20/04

ADDRESS: 12400 Wilshire Boulevard, Seventh Floor

Los Angeles, California 90025

TELEPHONE NO.: (408) 720-8300

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## FEE TRANSMITTAL FOR FY 2004

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Application No. 09/823,739  
Filing Date 03/30/2001  
First Named Inventor Michael J. Gormish  
Examiner Name Timothy M. Johnson  
Art Unit 2625  
Attorney Docket No. 047751.P132

☐ Applicant claims small entity status. See 37 CFR 1.27.

## METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None☒ Deposit AccountDeposit Account Number : 02-2666

Deposit Account Name: \_\_\_\_\_

☒ The Director is Authorized to do the following with respect to the above-identified Deposit Account:☐ Charge fee(s) indicated below.☒ Credit any overpayments.☒ Charge any additional fees during the pendency of this application.☒ Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged.☐ Charge fee(s) indicated below except for the filing fee.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Code	Fee (\$)	Code	Fee (\$)		
1001	770	2001	385	Utility application filing fee	_____
1002	340	2002	170	Design application filing fee	_____
1003	530	2003	265	Plant filing fee	_____
1004	770	2004	385	Reissue filing fee	_____
1005	160	2005	80	Provisional application filing fee	_____
SUBTOTAL (1) \$					_____

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

				Extra Claims	Fee from below	Fee Paid
Total Claims	_____	- 20** =	_____		X	_____
Independent Claims	_____	- 3** =	_____		X	_____
Multiple Dependent	_____					_____
**Or number previously paid, if greater; For Reissues, see below.						
Large Entity		Small Entity		Fee Description		
Code	Fee (\$)	Code	Fee (\$)			
1202	18	2202	9	Claims in excess of 20		
1201	86	2201	43	Independent claims in excess of 3		
1203	290	2203	145	Multiple dependent claim, if not paid		
1204	86	2204	43	**Reissue independent claims over original patent		
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent		
SUBTOTAL (2) \$						_____

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

<u>Large Entity</u>		<u>Small Entity</u>		<u>Fee Description</u>	<u>Fee Paid</u>
<u>Fee Code</u>	<u>Fee (\$)</u>	<u>Fee Code</u>	<u>Fee (\$)</u>		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1813	8,800	1813	8,800	Request for inter parties reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	180.00
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	For filing a submission after final rejection (see 37 CFR 1.129(a))	
1814	110	2814	55	Statutory Disclaimer	
1810	770	2810	385	For each additional invention to be examined (see 37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
1504	300	1504	300	Publication fee for early, voluntary, or normal pub.	
1505	300	1505	300	Publication fee for republication	
1803	130	1803	130	Request for voluntary publication or republication	
1808	130	1808	130	Processing fee under 37 CFR 1.17(i) (except provisionals)	
1454	1,330	1454	1,330	Acceptance of unintentionally delayed claim for priority	
Other fee (specify) _____					
Other fee (specify) _____					
<b>SUBTOTAL (3)</b>					<b>\$ 180.00</b>

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**SUBMITTED BY:**Typed or Printed Name: Michael J. MallieSignature: \_\_\_\_\_ Date: 4/10/07Reg. Number: 36,591 Telephone Number: (408) 720-8300

Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



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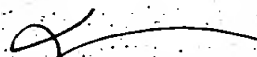
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074451.P132 - Ricoh Corporation  
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for "METHOD AND APPARATUS FOR ASSIGNING CODEBLOCKS TO CODERS  
OPERATING IN PARALLEL"  
Application No.: 09/823,739  
Filed: 03/30/01  
Inv: Michael J. Gormish, et al.

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Application No.: 09/823,739

Filing/Issue Date: 03/30/2001

Docket No.: 074451.P132

Date Mailed: 4-21-2004

Due Date(s):

Client: Ricoh Corporation

Atty/Sec: MJM/ttw

Title: Method and Apparatus for Assigning Codeblocks to Coders Operating in Parallel

First Named Inventor: Michael J. Gormish

*The following has been received in the U.S.P.T.O. on the date stamped hereon:*

**Transmittal Letters & Certificate of Mailing**

- ☒ Transmittal Letter
- ☒ Fee Transmittal (original & copy)
- ☐ RCE (Request for Continued Examination)
- ☐ Transmittal of Formal Drawings
- ☐ Issue Fee Transmittal (original & copy)
- ☐ Certificate of
- ☐ Express Mail No.:

**Missing Parts, Formal Papers**

- ☐ Response to Notice of Missing Parts
- ☐ Assignment & Cover sheet (\_\_\_\_ pgs.)
- ☐ Declaration & POA (\_\_\_\_ pgs.)

**Amendment / Response**

- ☐ Amendment/Response (\_\_\_\_ pgs.)
- ☐ Terminal Disclaimer
- ☒ Other: 231 cited references, Notice of Related Applications (3 pgs.)

**Petitions & Appeals**

- ☐ Petition for Extension of Time:
- ☐ Notice of Appeal
- ☐ Appeal Brief & two copies (\_\_\_\_ pgs. each)
- ☐ Reply Brief (\_\_\_\_ pgs.)

**Other**

- ☒ Information Disclosure Statement & PTO/SB/08 (10 pgs.) (previously 1449)
- ☐ Request to Publish (Rescind NonPublication)
- ☐ Drawings: \_\_\_\_ sheets, \_\_\_\_ figures
- ☒ Postcard

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